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By Germaine Brenkert
Germaine Brenkert

Dated: October 31, 2002

Patent
Atty. Docket: H55-060 US

11/20/02

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**



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| Applicant | : | Georg Steinbichler |
| Serial No. | : | 09/975,886 |
| Filing Date | : | October 12, 2001 |
| Examiner | : | -- |
| Group Art Unit | : | 1722 |
| For | : | APPARATUS FOR THE INJECTION MOLDING OF PLASTIC MATERIAL |

**Commissioner for Patents**
**Washington, D.C. 20231**

## INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

[ ] Under 37 C.F.R. 1.129(a), or
(First/Second Submission after Final Rejection)

[ X ] Under 37 C.F.R. 1.97(b), or
(Within any one of the following time periods: three (3) months of filing national application, other than a CPA, or date of entry of the national stage in an international application; or before the mailing date of a first official action on the merits in a non-provisional application, including a CPA; or a Request for Continued Examination (RCE)

[ ] Under 37 C.F.R. 1.97(c), together with either:

  [ ] Statement under 37 C.F.R. 1.97(e), as checked below, or

  [ ] Fee of $180.00 under 37 C.F.R. 1.17(p), or
  (After the 37 C.F.R. 1.97(b) time period, but before Final Office Action or Notice of Allowance, whichever issues first)

[ ] Under 37 C.F.R. 1.97(d), together with:

  [ ] Statement under 37 C.F.R. 1.97(e), as checked below, and

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(Filed after Final Office Action or Notice of Allowance, whichever issues first, but on or before payment of Issue Fee)

[ ] Under 37 C.F.R. 1.97 (i):

Applicant respectfully requests that the I.D.S. and cited reference(s) be placed in the application file wrapper (Filed after payment of Issue Fee).

**Statement Under 37 C.F.R. 1.97(e):**

[ ] Each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign Patent Office in a counterpart foreign application not more than three (3) months prior to the filing of this Information Disclosure Statement; or

[ ] No item of information contained in this Information Disclosure Statement was cited in a communication from a foreign Patent Office in a counterpart foreign application, and, to the knowledge of the undersigned, after making reasonable inquiry, no item of information contained in the Information Disclosure Statement was known to any individual designated in 37 C.F.R. 1.56(c) more than three (3) months prior to the filing of this Information Disclosure Statement.

**Statement Under 37 C.F.R. 1.704 (d) - (Patent Term Adjustment):**
(Applies to original applications, other than designs, filed on or after May 29, 2000)

[ ] Each item of information contained in the Information Disclosure Statement was cited in a communication from a foreign Patent Office in a counterpart application and this communication was not received by any individual designated in §1.56(c) more than thirty (30) days prior to the filing of the Information Disclosure Statement.

**Enclosed Herewith is Form PTO-1449, and:**

[ X ] Copies of the cited references are enclosed.

[ ] Copies of the cited references are enclosed, except those entered in prior application, U.S. Serial No._____, to which priority under 35 U.S.C. 120 is claimed (The earlier application contains copies of the cited references).

[ ] The listed references were cited in the enclosed International Search Report in a counterpart foreign application.

[ X ] The "concise explanation" requirement (non-English reference) for the references under 37 C.F.R. 1.98(a)(3) is satisfied by:

[X ] the explanation provided on the attached sheet;
[ ] the explanation provided in the specification;
[ ] submission of the enclosed International Search Report; or
[ ] the enclosed English language Abstract.

[ ] Applicant requests that the following pending applications be considered:

U.S. Patent/Application No. _____, filed/issued _____
U.S. Patent/Application No. _____, filed/issued _____
U.S. Patent/Application No. _____, filed/issued _____

_____ _____
Examiner Date

[ ] A copy of each above-cited application, including the current claims, is enclosed.

[ ] A copy of each above-cited application, including the current claims, is enclosed, except those entered in prior application Serial No._____, to which priority under 35 U.S.C. 120 is claimed.

The Examiner is respectfully requested to return a copy of the above list of pending applications indicating which references were considered with the next Official Action.

Further, it is respectfully requested that the information disclosed herein be made of record in this application.

**Method of Payment:**

[ ] A check for the fee noted above is enclosed.

[ ] Please charge our deposit account No. 14-1431.

[XX] The Commissioner is authorized to charge any deficiency in payment of fees and credit any overpayment to our Deposit Account No. 14-1431.

Respectfully submitted,

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Dated: October 31, 2002

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## EXPLANATION OF REFERENCES

German patent application no. DE 19631804 discloses a hydraulic hoist with lifting cylinder driven by a constant output pump. The hoist cylinder receives fluid from a speed controlled electric motor which operates at a minimum speed to provide smooth working and adequate lubrication at very low lifting speeds by diverting excess fluid back to the fluid reservoir. The pump is driven by a three-phase asynchronous motor whose speed is controlled by a frequency converter and electronic control unit. A two-way valve directs hydraulic fluid from a reservoir tank to the lifting cylinder and to a by-pass with adjustable throttle valve, controlled by the electronic control unit, so that lower pump delivery requirements cause greater flow to the tank.

The Wiley document (www.wiley-vch.de )compares gas injection technology with water injection technology in the industrial field of the production of injection-moulded hollow bodies. The use of injection screws, pressure storage means or hydro-pumps for the injection of water into the molten material is disclosed on p. 57, col. 2, I. 23-25. No details how to change the water flow rate or the fluid pressure are given.

The Menny reference is an excerpt from a German text book on hydrodynamic machines in which the modification of the working point of a hydro-pump by means of a flow control valve, a by-pass or the manipulation of a motor with variable rotational speed is disclosed.

The Krämer reference is an excerpt of a German text book on electrical engineering in the field of mechanical engineering. Using the example of an asynchronous motor it discloses a variety of ways how to control the rotational speed of a motor for a pump (chapters 13.4, 13.4.1-13.4.4).

The Michaeli et al. article is a survey of hydro-pumps available on the market. Various controlling concepts (rotational speed, bypass, suction) are disclosed.